

Iowa Governor's STEM Advisory Council Advocate Guide



Why Advocate for STEM in Iowa?

Strong interest and ability in science and mathematics with applications to technology and engineering provide young lowans with a pathway to the future. In fact, STEM is a vital economic development advantage for quality job growth in our state. STEM graduates are in great demand to meet current and future workforce needs.

How can you help? It's important for legislators and policymakers—especially the general public—to understand why STEM is important and learn of the successes we have seen so far. This guide can help you advocate in support of STEM programming and activities in lowa.



Governor Kim Reynolds and Accumold President and CEO Roger Hargens serve as co-chairs of the STEM Council, which is made up of leaders in higher education, PreK–12 schools, business and industry, nonprofits, government and more. The STEM Council's 47 members collaborate to boost STEM education and innovation with a focus on equitable access to STEM learning opportunities. The STEM Council develops and promotes STEM-specific policies, education programs, events and other resources for lowans. Regional boards advise six regional STEM managers housed at competitively-awarded Hub Institutions to carry out the STEM Council's vision.

How and What to Communicate to Stakeholders, Policymakers and Media

Know Your Stuff

On pages 4 and 5 of this guide, you will find a discussion guide and message map. Become familiar with them so you can speak freely and fluidly without them. Provide a handout that details what you talked about, like the STEM At A Glance or the Guidelines for School+Business Partnerships, which can be found at www.lowaSTEM.gov/STEMResources.

It also helps to learn about your audience before you speak to them.

If you are speaking to a legislator, read his or her legislator profile online at https://legis.iowa.gov/legislators to learn about his or her interests—like committees he or she is on—and other personal and professional information. That way, you can make a connection with the legislator and tune into reasons he or she may want to support STEM efforts.

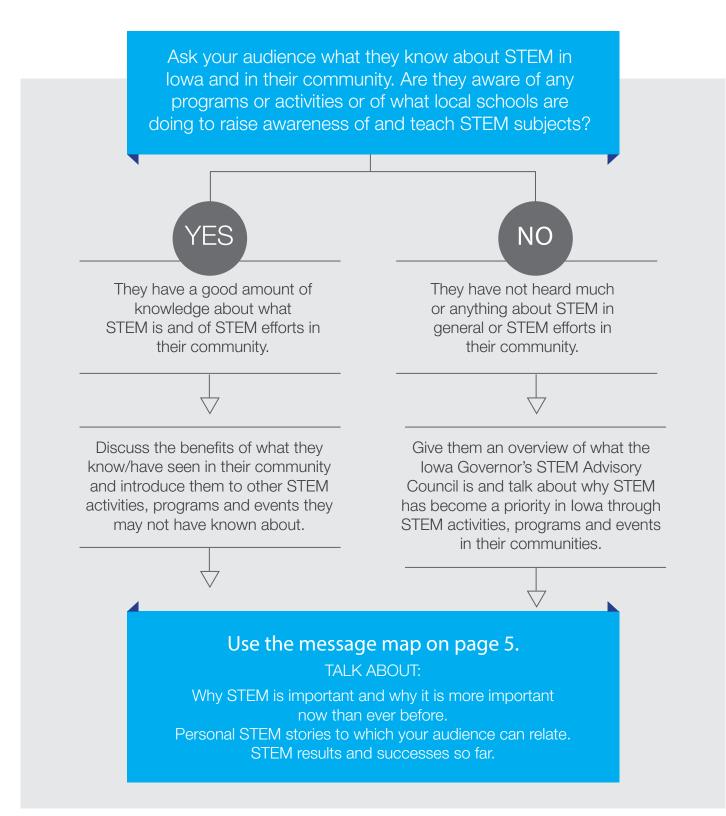
Potential business partners will want to hear about how STEM can have a positive effect on their business and their workforce. The STEM students of today are the workforce of tomorrow. It is important to businesses to ensure their future employees are skilled and qualified to work for them one day.

If you're speaking to the media, research the types of stories they usually have an interest in and present STEM from an angle that would be intriguing to them. For instance, if they are interested in community activities, speak to that. If they are education-focused, talk about the strides made with STEM in schools. The following are STEM activities, programs and events that may be of interest to each of these audiences.

STEM Programs and Events

- STEM Scale-Up Program: Exemplary STEM programs available to lowa educators across the state at little to no cost.
- Regional Family STEM Festivals: Each lowa STEM region hosts several family STEM festivals throughout the year to offer hands-on learning experiences provided by business and educational organizations local to each community.
- STEM BEST® (Business Engaging Students and Teachers): School+business partnerships that provide work-based learning experiences for students.
- Microsoft Imagine Academy: A software and systems certification program that bridges the worlds of education and work.
- lowa STEM Teacher Externships: Secondary STEM teachers immerse themselves in local workplaces for six weeks during the summer.
- STEM Seal of Approval: This designation recognizes and supports select, non-Council programs and events that help achieve STEM Council goals.
- I.O.W.A. STEM Teacher Award: An annual award sponsored by Kemin Industries to recognize one lowa STEM teacher from each of the six STEM regions for inspiring students in STEM subjects.

Introduce yourself. Talk about your professional role and the part you play with STEM in Iowa.



Iowa STEM Message Map

Key Message:

The lowa Governor's STEM Advisory Council is dedicated to increasing interest, awareness and achievement in science, technology, engineering and mathematics subjects to:

- Provide better educational opportunities for lowa students, border to border, rural to urban, girls to boys and especially those currently underrepresented in STEM.
- Cultivate a skilled workforce
- Drive economic development in Iowa

Supporting Messages

Why STEM? Why Now?

Strong interest and ability in science and mathematics with applications to technology and engineering provide young lowans with a pathway to the future. In fact, STEM is a vital economic development advantage for quality job growth in our state. STEM graduates are in great demand to meet current and future workforce needs.

92 percent of lowans agree or strongly agree that increased focus on STEM education in lowa will improve the state's economy.

90 percent of lowans agree there is an urgent need in lowa for more resources to be put toward STEM education.

90 percent of lowans believe STEM should be a priority in their local school districts.

STEM Results and Successes

STEM Scale-Up Program students scored an average of 4 percentage points higher in National Percentile Rank on the Iowa Assessments in science and 3 higher in mathematics and reading compared to students statewide.

Plus, a higher percentage of these students were very interested in STEM subjects and staying to work in lowa compared to non-participants.

70% of STEM Scale-Up Program educators have more confidence to teach STEM content, and 74% have increased their STEM knowledge.

STEM Community Support

Support from business and industry partners, state and national grants, and cost-sharing partners nearly matches the state's legislative appropriation.

Use these messages and leave the STEM At A Glance with them to help educate your audience. Also, encourage them to visit the lowa Governor's STEM Advisory Council website (http://www.lowaSTEM.gov/) for more information.

Before you end the conversation, make sure you remind your audience of specific ways they can get involved and invite them to connect with their Regional STEM Manager to get started.





GOVERNOR'S STEM ADVISORY COUNCIL

dedicated to building a strong STEM education foundation for all lowans

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